

Chapter 7.5

① Let us assume we have a oven large enough to hold 1 cake, 1 large bowl, 1 cake pan and 1 mixer, and also assume that we do not have to reheat the oven for each cake.

② Preheat Oven

③ Mix-up ingredients in bowl for Cake 1

④ And fill Cake pan with contents of bowl and bake Cake 1, and then mix ingredients for cake 2 in the bowl.

⑤ Finish baking Cake 1 and empty Cake pan, fill Cake pan with bowl contents for Cake 2 and bake Cake 2 and then mix ingredients in bowl for Cake 3

⑥ Finish baking Cake 2 and empty cake pan, fill Cake pan with bowl contents for Cake 3 and bake Cake 3

⑦ And finish baking Cake 3, Empty Cake Pan

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②

Here we have 3 bowls, 3 cake pans, and 3 mixers. And we will name them X, Y, Z

- Preheat Oven
- Mix up ingredients in bowl X for cake 1
- Fill cake pan X with contents of bowl X and bake for Cake 1. And then Mix-up ingredients for cake 2 in bowl X
- Finishing baking Cake 1. Empty cake pan X. Fill cake pan X with contents of bowl X for Cake 2. Mix-up ingredient in bowl X for Cake 3
- Finishing baking Cake 2. Empty cake pan X. Fill cake pan X with contents of bowl X for Cake 3.
- Finish baking Cake 3. Empty cake pan X.

④ from

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Suppose we have multiple processors that's multiple ovens or multiple cooks can execute instructions that is bake multiple cakes in parallel. The baking steps or cooking steps that is executing instructions may have some dependencies on the instructions in the loop.
